## I claim:

- A light waveguide comprising: 1
- 2 a first end, and
- a second end 3
- wherein one of the two ends comprises a flat entering area 4
- 5 for the light to be coupled into the core of the light
- 6 waveguide, the entering area is narrower than the core diameter
- of the light waveguide, and around the entering area the end of
- the light waveguide is laterally sloped up to the entering
- The first train that the first train 9 surface.

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- The light waveguide according to claim 1, wherein the one 2.
- 2 end of the light waveguide is only sloped on both lateral sides
  - of the entering area designed 3
  - The light waveguide according to claim 1, wherein the one 1
  - end of the light wavequide is sloped such that light entering
  - 3 into the sloped surfaces is not further guided in the core of
  - 4 the light waveguide.
  - The light waveguide according to claim 1, wherein the one 1
  - 2 end of the light waveguide is symmetric with respect to an axial
  - 3 plane of the light waveguide.

- The light waveguide according to claim 1, wherein the 1
- entering surface is narrower than the core diameter of the light 2
- waveguide and wherein around the entering area a vapor deposited 3
- opaque metal layer is provided. 4
- The light waveguide according to claim 1, wherein the 1
- entering area is at least as long as the core diameter of the 2
- 3 light waveguide.

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- The light waveguide according to claim 1, wherein the one 1 1
- 2 3 4 end of the light waveguide is only sloped on both lateral sides
  - of the entering area designed rectangularly, the one end of the
  - light waveguide is sloped such that light entering into the
  - sloped surfaces is not further guided in the core of the light
- 5 1 1 1 1 7 waveguide, the one end of the light waveguide is symmetric with
  - respect to an axial plane of the light waveguide, and the
- 3 8 entering area is at least as long as the core diameter of the
  - light waveguide.
  - A light waveguide comprising: 8. 1
  - an entering surface, and 2
  - an existing surface, 3
  - wherein the entering surface is narrower than the core 4
  - diameter of the light waveguide, and around the entering area a 5
  - vapor deposited opaque metal layer is provided. 6

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- The light waveguide according to claim 8, wherein the 2
- entering area is at least as long as the core diameter of the 3
- light waveguide. 4
- An optical spectrometer comprising: 1
- an exit slit, and 2
- a detector for the light penetrating through the exit slit,
- 3 4 5 6 wherein the exit slit is formed by the end of the light waveguide, and the detector is disposed at the other end of said
  - light waveguide.
- And then then a The optical spectrometer according to claim 10, wherein the
- 豆 2 豆 3 end of the light waveguide is only sloped on both lateral sides
  - of the entering area designed rectangularly.
    - The optical spectrometer according to claim 10, wherein the
    - end of the light waveguide is sloped such that light entering 2
    - into the sloped surfaces is not further guided in the core of 3
    - the light waveguide. 4

- 1 13. The optical spectrometer according to claim 10, wherein the
- 2 end of the light waveguide is symmetric with respect to an axial
- 3 plane of the light waveguide.
- 1 14. The optical spectrometer according to claim 10, wherein the
- 2 entering surface is narrower than the core diameter of the light
- 3 waveguide, and around the entering area a vapor deposited opaque
- - 15. The optical spectrometer according to claim 10, wherein the
- $\square$  2 entering area is at least as long as the core diameter of the
- 3 light waveguide.
- 10 10 15 1 16. The optical spectrometer according to claim 10, wherein the
  - 2 end of the light waveguide is only sloped on both lateral sides
  - 3 of the entering area designed rectangularly, the end of the
  - 4 light waveguide is sloped such that light entering into the
  - 5 sloped surfaces is not further guided in the core of the light
  - 6 waveguide, the end of the light waveguide is symmetric with
  - 7 respect to an axial plane of the light waveguide, and the
  - 8 entering area is at least as long as the core diameter of the
  - 9 light waveguide.